



December 20, 2012

Duke Energy  
Miami Fort Generating Station  
11021 Brower Road  
North Bend, OH 45052

Attention: Ms. Tara Thomas  
Environmental Coordinator

Re: Results – **December 2012**  
Low-Level Mercury Sampling  
Miami Fort Generating Station  
North Bend, Ohio

In accordance with your request, URS prepared the following letter report transmitting low-level mercury test results for samples collected at the Miami Fort Generating Station located in North Bend, Ohio.

The scope of work involved the sampling of intake and discharge waters from the following sources and analysis of those samples for low-level mercury.

1. River Intake
2. Station 601 (WWT Influent)  
[Samples were collected at this station one detention time (approximately 14 hours as specified by Duke Energy) before samples collected at Outfall 608]
3. Outfall 608 (WWT Effluent)  
[Samples were collected at this outfall one detention time (approximately 14 hours as specified by Duke Energy) after samples collected at station 601]
4. Outfall 002 (Pond B Discharge)

Each sample was collected following the required Method 1669: *Sampling Ambient Water for Determination of Trace Metals at EPA Water Quality Criteria Levels* (Sampling Method) and analyzed by Method 1631. At the request of Duke Energy, a dissolved low-level mercury sample was collected by Method 1669 from Outfall 608 and analyzed by Method 1631. The collected dissolved sample was filtered at the laboratory utilizing 0.45 micron filtration. Also at the request of Duke Energy, total metal mercury sample aliquots (preserved) from Station 601 (Unit 7 and 8) were used to have the laboratory pipet off and prepare the supernatant layer of the samples (leaving behind as much of the settled solids as possible) for analysis by Method 7470A.

Field staff from URS' Cincinnati office conducted the sampling and TestAmerica Laboratories Inc. located in North Canton, Ohio performed the analytical procedures. The analytical procedures included the analyses of a collected sample and duplicate sample



Duke Energy  
December 20, 2012  
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(duplicates collected at Outfall 608 and Outfall 002), field blank (field blanks collected at the River Intake, Outfall 608, and Outfall 002), and trip blank.

The results from the **December 3 and 4, 2012** sampling events are presented in the attached Table 1. A copy of the laboratory report is enclosed with this letter.

--ooOoo--

URS is pleased to provide continued assistance to Duke Energy in the execution of their environmental monitoring requirements. If there are any questions regarding the content of this report, please do not hesitate to contact the undersigned.

Sincerely,

URS Corporation

A handwritten signature in blue ink, appearing to read "Michael A. Wagner".

Michael A. Wagner  
Project Manager

A handwritten signature in blue ink, appearing to read "Dennis P. Connair".

Dennis P. Connair, C.P.G.  
Principal

MAW/DPC/Duke Energy-MFS LL Hg 2012  
Job No. 14950516

**TABLE 1**  
**ANALYTICAL RESULTS**  
**LOW-LEVEL MERCURY**  
**RIVER INTAKE, STATION 601, OUTFALL 608, AND OUTFALL 002 (POND B)**  
  
**DUKE ENERGY - MIAMI FORT STATION**  
**NORTH BEND, OHIO**

Sample ID	Date Sampled / Results (ng/L, parts per trillion)					
	1/3-4/2012	2/2-3/2012	3/1-2/2012	4/2-3/2012	5/1-2/2012	6/5-6/2012
River Intake	7.9	6.1	3.9	4.0	3.9	2.2
Station 601 (7)	360,000	100,000	1,300,000	85,000	590,000	180,000
Station 601 (7)*	570	6,000	54,000	68,000	110,000	670
Station 601 (7)* [duplicate]	200	Not Collected	55,000	66,000	110,000	Not Collected
Station 601 (8)	210,000	68,000	830,000	310,000	Off Line	140,000
Station 601 (8)*	420	5,300	110,000	75,000	Off Line	1,000
Station 601 (8)*[duplicate]	Not Collected	3,500	Not Collected	Not Collected	Off Line	880
Outfall 608	60	89	48	120	170	210
Outfall 608 [duplicate]	65	85	49	120	200	200
Outfall 608 [dissolved, 0.45 micron]	2.9	26	1.6 H	0.53 B	61	64
APB-002	3.2	3.7	2.9	4.8	4.2	2.7
APB-002 [duplicate]	3.3	3.5	3.6	4.6	4.0	2.5
Field Blank (RI-FB)	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Field Blank (WWT-FB)	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Field Blank (AP-FB)	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trip Blank	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Samples collected by URS. Samples analyzed by TestAmerica of North Canton, Ohio.

Sampling times are noted within the associated laboratory report for each collected sample

\* = Total mercury analysis utilizing Method 7470A [results converted from ug/L (parts per billion) to ng/L]. The aqueous layer of the sample was pipetted off and prepared, with care to leave behind as much of the settled solids as possible.

H = Sample was prepped or analyzed beyond the specified holding time

B = Compound was found in blank and sample

TABLE 1 (continued)

Sample ID	Date Sampled / Results (ng/L, parts per trillion)					
	7/5-6/2012	8/1-2/2012	9/4-5/2012	10/1-2/2012	11/5-6/2012	12/3-4/2012
River Intake	1.6	1.6	1.1	2.5^	4.9	1.8
Station 601 (7)	240,000	360,000	230,000	400,000	210,000	290,000
Station 601 (7)*	8,100 B	1,200	2,000	21,000	720,000	92,000
Station 601 (7)* [duplicate]	6,400 B	890	Not Collected	19,000	Not Collected	Not Collected
Station 601 (8)	460,000	260,000	320,000	420,000	210,000	520,000
Station 601 (8)*	10,000 B	<200	670	8,500	1,600	76,000
Station 601 (8)*[duplicate]	Not Collected	Not Collected	380	Not Collected	1,600	100,000
Outfall 608	240	78	9.5 / 49**	300	39	3.3
Outfall 608 [duplicate]	220	82	10 / 46**	300	38	3.1
Outfall 608 [dissolved, 0.45 micron]	29 H	19	7.5	6.6	3.2	<0.50
APB-002	2.5	2.1	3.8	2.4	6.4	7.5
APB-002 [duplicate]	2.5	2.0	4.1	2.5	6.3	7.4
Field Blank (RI-FB)	<0.50	<0.50	1.2	1.9^	<0.50	0.66
Field Blank (WWT-FB)	<0.50	<0.50	<0.50 / <0.50**	<0.50	<0.50	<0.50
Field Blank (AP-FB)	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trip Blank	<0.50	<0.50	<0.50 / <0.50**	<0.50	<0.50	<0.50

Samples collected by URS

Samples analyzed by TestAmerica of North Canton, Ohio

Sampling times are noted within the associated laboratory report for each collected sample.

\* = Total mercury analysis utilizing Method 7470A [results converted from ug/L (parts per billion) to ng/L]. The aqueous layer of the sample was pipetted off and prepared, with care to leave behind as much of the settled solids as possible.

\*\* = Outfall 608 re-sampled 9/30/2012 at request of Duke Energy.

B = Compound was found in blank and sample

^ = The closing CCB failed high: Instrument related QC exceeds the control limit.

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-18313-1

Client Project/Site: Duke MF LL Hg 2012 - J12120124

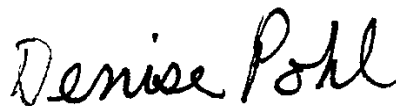
For:

Duke Energy Corporation

139 East Fourth Street

Cincinnati, Ohio 45202

Attn: Ms. Sue Wallace



Authorized for release by:

12/18/2012 5:21:50 PM

Denise Pohl

Project Manager II

[denise.pohl@testamericainc.com](mailto:denise.pohl@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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## Definitions/Glossary

Client: Duke Energy Corporation  
Project/Site: Duke MF LL Hg 2012 - J12120124

TestAmerica Job ID: 240-18313-1

### Qualifiers

#### Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

## Case Narrative

Client: Duke Energy Corporation  
Project/Site: Duke MF LL Hg 2012 - J12120124

TestAmerica Job ID: 240-18313-1

**Job ID: 240-18313-1**

**Laboratory: TestAmerica Canton**

**Narrative**

### CASE NARRATIVE

**Client: Duke Energy Corporation**

**Project: Duke MF LL Hg 2012 - J12120124**

**Report Number: 240-18313-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

#### RECEIPT

The samples were received on 12/05/2012; the samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was 13.7 C.

#### DISSOLVED LOW LEVEL MERCURY

Sample 608 WWT DISSOLVED (240-18313-9) was analyzed for dissolved low level mercury in accordance with EPA Method 1631E. The samples were prepared on 12/06/2012 and analyzed on 12/07/2012.

No difficulties were encountered during the Low Level Mercury analysis. All quality control parameters were within the acceptance limits.

#### TOTAL MERCURY

Samples 601(8)WWT TOT (240-18313-2), 601(8)WWT TOT DUP (240-18313-3) and 601(7)WWT TOT (240-18313-5) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 12/06/2012 and analyzed on 12/11/2012.

Samples 601(8)WWT TOT (240-18313-2)[10X], 601(8)WWT TOT DUP (240-18313-3)[15X] and 601(7)WWT TOT (240-18313-5)[15X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Per client instructions, the aqueous layer of the sample(s) was pipetted off and prepared for samples 601(8)WWT TOT, 601(8)WWT TOT DUP and 601(7)WWT TOT with care to leave behind as much of the settled solids as possible.



## Case Narrative

Client: Duke Energy Corporation  
Project/Site: Duke MF LL Hg 2012 - J12120124

TestAmerica Job ID: 240-18313-1

### Job ID: 240-18313-1 (Continued)

#### Laboratory: TestAmerica Canton (Continued)

No other difficulties were encountered during the mercury analyses. All other quality control parameters were within the acceptance limits.

#### LOW LEVEL MERCURY

Samples 601(8)WWT (240-18313-1), 601(7)WWT (240-18313-4), 608 WWT FB (240-18313-6), 608 WWT (240-18313-7), 608 WWT DUP (240-18313-8), TRIP BLANK (240-18313-10), RI FB (240-18313-11), RI (240-18313-12), OUTFALL 002 FB (240-18313-13), OUTFALL 002 (240-18313-14) and OUTFALL 002 DUP (240-18313-15) were analyzed for Low Level Mercury in accordance with EPA Method 1631E. The samples were prepared on 12/10/2012 and analyzed on 12/11/2012.

Samples 601(8)WWT (240-18313-1)[100000X] and 601(7)WWT (240-18313-4)[100000X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the Low Level Mercury analyses.

All quality control parameters were within the acceptance limits.

## Method Summary

Client: Duke Energy Corporation  
Project/Site: Duke MF LL Hg 2012 - J12120124

TestAmerica Job ID: 240-18313-1

Method	Method Description	Protocol	Laboratory
1631E	Mercury, Low Level (CVAFS)	EPA	TAL NC
7470A	Mercury (CVAA)	SW846	TAL NC

### Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### Laboratory References:

TAL NC = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

## Sample Summary

Client: Duke Energy Corporation  
Project/Site: Duke MF LL Hg 2012 - J12120124

TestAmerica Job ID: 240-18313-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-18313-1	601(8)WWT	Water	12/03/12 17:10	12/05/12 09:15
240-18313-2	601(8)WWT TOT	Water	12/03/12 17:15	12/05/12 09:15
240-18313-3	601(8)WWT TOT DUP	Water	12/03/12 17:20	12/05/12 09:15
240-18313-4	601(7)WWT	Water	12/03/12 17:25	12/05/12 09:15
240-18313-5	601(7)WWT TOT	Water	12/03/12 17:30	12/05/12 09:15
240-18313-6	608 WWT FB	Water	12/04/12 07:50	12/05/12 09:15
240-18313-7	608 WWT	Water	12/04/12 07:55	12/05/12 09:15
240-18313-8	608 WWT DUP	Water	12/04/12 08:00	12/05/12 09:15
240-18313-9	608 WWT DISSOLVED	Water	12/04/12 08:05	12/05/12 09:15
240-18313-10	TRIP BLANK	Water	12/04/12 00:00	12/05/12 09:15
240-18313-11	RI FB	Water	12/04/12 08:15	12/05/12 09:15
240-18313-12	RI	Water	12/04/12 08:20	12/05/12 09:15
240-18313-13	OUTFALL 002 FB	Water	12/04/12 08:40	12/05/12 09:15
240-18313-14	OUTFALL 002	Water	12/04/12 08:45	12/05/12 09:15
240-18313-15	OUTFALL 002 DUP	Water	12/04/12 08:50	12/05/12 09:15

## Detection Summary

Client: Duke Energy Corporation  
Project/Site: Duke MF LL Hg 2012 - J12120124

TestAmerica Job ID: 240-18313-1

### Client Sample ID: 601(8)WWT

Lab Sample ID: 240-18313-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Mercury	520000		50000	ng/L	100000		1631E	Total/NA

### Client Sample ID: 601(8)WWT TOT

Lab Sample ID: 240-18313-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Mercury	76		2.0	ug/L	10		7470A	Total/NA

### Client Sample ID: 601(8)WWT TOT DUP

Lab Sample ID: 240-18313-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Mercury	100		3.0	ug/L	15		7470A	Total/NA

### Client Sample ID: 601(7)WWT

Lab Sample ID: 240-18313-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Mercury	290000		50000	ng/L	100000		1631E	Total/NA

### Client Sample ID: 601(7)WWT TOT

Lab Sample ID: 240-18313-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Mercury	92		3.0	ug/L	15		7470A	Total/NA

### Client Sample ID: 608 WWT FB

Lab Sample ID: 240-18313-6

No Detections

### Client Sample ID: 608 WWT

Lab Sample ID: 240-18313-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Mercury	3.3		0.50	ng/L	1		1631E	Total/NA

### Client Sample ID: 608 WWT DUP

Lab Sample ID: 240-18313-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Mercury	3.1		0.50	ng/L	1		1631E	Total/NA

### Client Sample ID: 608 WWT DISSOLVED

Lab Sample ID: 240-18313-9

No Detections

### Client Sample ID: TRIP BLANK

Lab Sample ID: 240-18313-10

No Detections

### Client Sample ID: RI FB

Lab Sample ID: 240-18313-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.66		0.50	ng/L	1		1631E	Total/NA

### Client Sample ID: RI

Lab Sample ID: 240-18313-12

TestAmerica Canton

## Detection Summary

Client: Duke Energy Corporation  
Project/Site: Duke MF LL Hg 2012 - J12120124

TestAmerica Job ID: 240-18313-1

### Client Sample ID: RI (Continued)

Lab Sample ID: 240-18313-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Mercury	1.8		0.50	ng/L	1		1631E	Total/NA

### Client Sample ID: OUTFALL 002 FB

Lab Sample ID: 240-18313-13

No Detections

### Client Sample ID: OUTFALL 002

Lab Sample ID: 240-18313-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Mercury	7.5		0.50	ng/L	1		1631E	Total/NA

### Client Sample ID: OUTFALL 002 DUP

Lab Sample ID: 240-18313-15

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Mercury	7.4		0.50	ng/L	1		1631E	Total/NA

## Client Sample Results

Client: Duke Energy Corporation  
Project/Site: Duke MF LL Hg 2012 - J12120124

TestAmerica Job ID: 240-18313-1

**Client Sample ID: 601(8)WWT**

**Date Collected: 12/03/12 17:10**

**Date Received: 12/05/12 09:15**

**Lab Sample ID: 240-18313-1**

**Matrix: Water**

**Method: 1631E - Mercury, Low Level (CVAFS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	520000		50000	ng/L		12/10/12 13:41	12/11/12 12:25	100000

## Client Sample Results

Client: Duke Energy Corporation  
Project/Site: Duke MF LL Hg 2012 - J12120124

TestAmerica Job ID: 240-18313-1

**Client Sample ID: 601(8)WWT TOT**

**Lab Sample ID: 240-18313-2**

**Date Collected: 12/03/12 17:15**

**Matrix: Water**

**Date Received: 12/05/12 09:15**

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	76		2.0	ug/L		12/06/12 14:40	12/11/12 19:35	10

## Client Sample Results

Client: Duke Energy Corporation  
Project/Site: Duke MF LL Hg 2012 - J12120124

TestAmerica Job ID: 240-18313-1

**Client Sample ID: 601(8)WWT TOT DUP**

**Lab Sample ID: 240-18313-3**

**Date Collected: 12/03/12 17:20**

**Matrix: Water**

**Date Received: 12/05/12 09:15**

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	100		3.0	ug/L		12/06/12 14:40	12/11/12 19:37	15



## Client Sample Results

Client: Duke Energy Corporation  
Project/Site: Duke MF LL Hg 2012 - J12120124

TestAmerica Job ID: 240-18313-1

**Client Sample ID: 601(7)WWT**

**Lab Sample ID: 240-18313-4**

**Date Collected: 12/03/12 17:25**

**Matrix: Water**

**Date Received: 12/05/12 09:15**

**Method: 1631E - Mercury, Low Level (CVAFS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	290000		50000	ng/L		12/10/12 13:41	12/11/12 12:40	100000

## Client Sample Results

Client: Duke Energy Corporation  
Project/Site: Duke MF LL Hg 2012 - J12120124

TestAmerica Job ID: 240-18313-1

**Client Sample ID: 601(7)WWT TOT**

**Lab Sample ID: 240-18313-5**

**Date Collected: 12/03/12 17:30**

**Matrix: Water**

**Date Received: 12/05/12 09:15**

**Method: 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	92		3.0	ug/L		12/06/12 14:40	12/11/12 19:39	15

## Client Sample Results

Client: Duke Energy Corporation  
Project/Site: Duke MF LL Hg 2012 - J12120124

TestAmerica Job ID: 240-18313-1

**Client Sample ID: 608 WWT FB**

**Lab Sample ID: 240-18313-6**

**Date Collected: 12/04/12 07:50**

**Matrix: Water**

**Date Received: 12/05/12 09:15**

**Method: 1631E - Mercury, Low Level (CVAFS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50	ng/L		12/10/12 13:41	12/11/12 12:43	1

## Client Sample Results

Client: Duke Energy Corporation  
Project/Site: Duke MF LL Hg 2012 - J12120124

TestAmerica Job ID: 240-18313-1

**Client Sample ID: 608 WWT**

**Date Collected: 12/04/12 07:55**

**Date Received: 12/05/12 09:15**

**Lab Sample ID: 240-18313-7**

**Matrix: Water**

**Method: 1631E - Mercury, Low Level (CVAFS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	3.3		0.50	ng/L		12/10/12 13:41	12/11/12 12:47	1

## Client Sample Results

Client: Duke Energy Corporation  
Project/Site: Duke MF LL Hg 2012 - J12120124

TestAmerica Job ID: 240-18313-1

**Client Sample ID: 608 WWT DUP**

**Lab Sample ID: 240-18313-8**

**Date Collected: 12/04/12 08:00**

**Matrix: Water**

**Date Received: 12/05/12 09:15**

**Method: 1631E - Mercury, Low Level (CVAFS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	3.1		0.50	ng/L		12/10/12 13:41	12/11/12 12:51	1

## Client Sample Results

Client: Duke Energy Corporation  
Project/Site: Duke MF LL Hg 2012 - J12120124

TestAmerica Job ID: 240-18313-1

**Client Sample ID: 608 WWT DISSOLVED**

**Lab Sample ID: 240-18313-9**

**Date Collected: 12/04/12 08:05**

**Matrix: Water**

**Date Received: 12/05/12 09:15**

**Method: 1631E - Mercury, Low Level (CVAFS) - Dissolved**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50	ng/L		12/06/12 14:37	12/07/12 11:03	1

## Client Sample Results

Client: Duke Energy Corporation  
Project/Site: Duke MF LL Hg 2012 - J12120124

TestAmerica Job ID: 240-18313-1

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 240-18313-10**

**Date Collected: 12/04/12 00:00**

**Matrix: Water**

**Date Received: 12/05/12 09:15**

**Method: 1631E - Mercury, Low Level (CVAFS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50	ng/L		12/10/12 13:41	12/11/12 12:55	1

## Client Sample Results

Client: Duke Energy Corporation  
Project/Site: Duke MF LL Hg 2012 - J12120124

TestAmerica Job ID: 240-18313-1

**Client Sample ID: RI FB**

**Lab Sample ID: 240-18313-11**

**Date Collected: 12/04/12 08:15**

**Matrix: Water**

**Date Received: 12/05/12 09:15**

**Method: 1631E - Mercury, Low Level (CVAFS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.66		0.50	ng/L		12/10/12 13:41	12/11/12 12:59	1



## Client Sample Results

Client: Duke Energy Corporation  
Project/Site: Duke MF LL Hg 2012 - J12120124

TestAmerica Job ID: 240-18313-1

**Client Sample ID: RI**

**Lab Sample ID: 240-18313-12**

**Date Collected: 12/04/12 08:20**

**Matrix: Water**

**Date Received: 12/05/12 09:15**

**Method: 1631E - Mercury, Low Level (CVAFS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	1.8		0.50	ng/L		12/10/12 13:41	12/11/12 13:04	1

## Client Sample Results

Client: Duke Energy Corporation  
Project/Site: Duke MF LL Hg 2012 - J12120124

TestAmerica Job ID: 240-18313-1

**Client Sample ID: OUTFALL 002 FB**

**Lab Sample ID: 240-18313-13**

**Date Collected: 12/04/12 08:40**

**Matrix: Water**

**Date Received: 12/05/12 09:15**

**Method: 1631E - Mercury, Low Level (CVAFS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50	ng/L		12/10/12 13:41	12/11/12 13:09	1

## Client Sample Results

Client: Duke Energy Corporation  
Project/Site: Duke MF LL Hg 2012 - J12120124

TestAmerica Job ID: 240-18313-1

**Client Sample ID: OUTFALL 002**

**Lab Sample ID: 240-18313-14**

**Date Collected: 12/04/12 08:45**

**Matrix: Water**

**Date Received: 12/05/12 09:15**

**Method: 1631E - Mercury, Low Level (CVAFS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	7.5		0.50	ng/L		12/10/12 13:41	12/11/12 13:14	1

## Client Sample Results

Client: Duke Energy Corporation  
Project/Site: Duke MF LL Hg 2012 - J12120124

TestAmerica Job ID: 240-18313-1

**Client Sample ID: OUTFALL 002 DUP**

**Lab Sample ID: 240-18313-15**

**Date Collected: 12/04/12 08:50**

**Matrix: Water**

**Date Received: 12/05/12 09:15**

**Method: 1631E - Mercury, Low Level (CVAFS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	7.4		0.50	ng/L		12/10/12 13:41	12/11/12 13:27	1

# QC Sample Results

Client: Duke Energy Corporation  
Project/Site: Duke MF LL Hg 2012 - J12120124

TestAmerica Job ID: 240-18313-1

## Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 240-67650/1-A

Matrix: Water

Analysis Batch: 67726

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 67650

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50	ng/L		12/06/12 14:37	12/07/12 08:59	1

Lab Sample ID: LCS 240-67650/2-A

Matrix: Water

Analysis Batch: 67726

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 67650

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	4.81		ng/L		96	77 - 123

Lab Sample ID: MB 240-68023/1-A

Matrix: Water

Analysis Batch: 68290

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 68023

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50	ng/L		12/10/12 13:41	12/11/12 11:50	1

Lab Sample ID: LCS 240-68023/2-A

Matrix: Water

Analysis Batch: 68290

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 68023

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	4.98		ng/L		100	77 - 123

Lab Sample ID: PB 240-67649/1-B PB

Matrix: Water

Analysis Batch: 67726

Client Sample ID: Method Blank

Prep Type: Dissolved

Prep Batch: 67650

Analyte	PB Result	PB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50	ng/L		12/06/12 14:37	12/07/12 10:37	1

## Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-67595/1-A

Matrix: Water

Analysis Batch: 68175

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 67595

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	ug/L		12/06/12 14:40	12/11/12 14:23	1

Lab Sample ID: LCS 240-67595/2-A

Matrix: Water

Analysis Batch: 68175

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 67595

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	4.70		ug/L		94	81 - 123

TestAmerica Canton

# QC Association Summary

Client: Duke Energy Corporation  
Project/Site: Duke MF LL Hg 2012 - J12120124

TestAmerica Job ID: 240-18313-1

## Metals

### Prep Batch: 67595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-18313-2	601(8)WWT TOT	Total/NA	Water	7470A	
240-18313-3	601(8)WWT TOT DUP	Total/NA	Water	7470A	
240-18313-5	601(7)WWT TOT	Total/NA	Water	7470A	
LCS 240-67595/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 240-67595/1-A	Method Blank	Total/NA	Water	7470A	

### Prep Batch: 67650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-18313-9	608 WWT DISSOLVED	Dissolved	Water	1631E	
LCS 240-67650/2-A	Lab Control Sample	Total/NA	Water	1631E	
MB 240-67650/1-A	Method Blank	Total/NA	Water	1631E	
PB 240-67649/1-B PB	Method Blank	Dissolved	Water	1631E	

### Analysis Batch: 67726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-18313-9	608 WWT DISSOLVED	Dissolved	Water	1631E	67650
LCS 240-67650/2-A	Lab Control Sample	Total/NA	Water	1631E	67650
MB 240-67650/1-A	Method Blank	Total/NA	Water	1631E	67650
PB 240-67649/1-B PB	Method Blank	Dissolved	Water	1631E	67650

### Prep Batch: 68023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-18313-1	601(8)WWT	Total/NA	Water	1631E	
240-18313-4	601(7)WWT	Total/NA	Water	1631E	
240-18313-6	608 WWT FB	Total/NA	Water	1631E	
240-18313-7	608 WWT	Total/NA	Water	1631E	
240-18313-8	608 WWT DUP	Total/NA	Water	1631E	
240-18313-10	TRIP BLANK	Total/NA	Water	1631E	
240-18313-11	RI FB	Total/NA	Water	1631E	
240-18313-12	RI	Total/NA	Water	1631E	
240-18313-13	OUTFALL 002 FB	Total/NA	Water	1631E	
240-18313-14	OUTFALL 002	Total/NA	Water	1631E	
240-18313-15	OUTFALL 002 DUP	Total/NA	Water	1631E	
LCS 240-68023/2-A	Lab Control Sample	Total/NA	Water	1631E	
MB 240-68023/1-A	Method Blank	Total/NA	Water	1631E	

### Analysis Batch: 68175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-18313-2	601(8)WWT TOT	Total/NA	Water	7470A	67595
240-18313-3	601(8)WWT TOT DUP	Total/NA	Water	7470A	67595
240-18313-5	601(7)WWT TOT	Total/NA	Water	7470A	67595
LCS 240-67595/2-A	Lab Control Sample	Total/NA	Water	7470A	67595
MB 240-67595/1-A	Method Blank	Total/NA	Water	7470A	67595

### Analysis Batch: 68290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-18313-1	601(8)WWT	Total/NA	Water	1631E	68023
240-18313-4	601(7)WWT	Total/NA	Water	1631E	68023
240-18313-6	608 WWT FB	Total/NA	Water	1631E	68023
240-18313-7	608 WWT	Total/NA	Water	1631E	68023
240-18313-8	608 WWT DUP	Total/NA	Water	1631E	68023

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## QC Association Summary

Client: Duke Energy Corporation  
Project/Site: Duke MF LL Hg 2012 - J12120124

TestAmerica Job ID: 240-18313-1

### Metals (Continued)

#### Analysis Batch: 68290 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-18313-10	TRIP BLANK	Total/NA	Water	1631E	68023
240-18313-11	RI FB	Total/NA	Water	1631E	68023
240-18313-12	RI	Total/NA	Water	1631E	68023
240-18313-13	OUTFALL 002 FB	Total/NA	Water	1631E	68023
240-18313-14	OUTFALL 002	Total/NA	Water	1631E	68023
240-18313-15	OUTFALL 002 DUP	Total/NA	Water	1631E	68023
LCS 240-68023/2-A	Lab Control Sample	Total/NA	Water	1631E	68023
MB 240-68023/1-A	Method Blank	Total/NA	Water	1631E	68023

# Lab Chronicle

Client: Duke Energy Corporation  
Project/Site: Duke MF LL Hg 2012 - J12120124

TestAmerica Job ID: 240-18313-1

**Client Sample ID: 601(8)WWT**

**Date Collected: 12/03/12 17:10**

**Date Received: 12/05/12 09:15**

**Lab Sample ID: 240-18313-1**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			68023	12/10/12 13:41	AS	TAL NC
Total/NA	Analysis	1631E		100000	68290	12/11/12 12:25	AS	TAL NC

**Client Sample ID: 601(8)WWT TOT**

**Date Collected: 12/03/12 17:15**

**Date Received: 12/05/12 09:15**

**Lab Sample ID: 240-18313-2**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			67595	12/06/12 14:40	LM	TAL NC
Total/NA	Analysis	7470A		10	68175	12/11/12 19:35	DH	TAL NC

**Client Sample ID: 601(8)WWT TOT DUP**

**Date Collected: 12/03/12 17:20**

**Date Received: 12/05/12 09:15**

**Lab Sample ID: 240-18313-3**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			67595	12/06/12 14:40	LM	TAL NC
Total/NA	Analysis	7470A		15	68175	12/11/12 19:37	DH	TAL NC

**Client Sample ID: 601(7)WWT**

**Date Collected: 12/03/12 17:25**

**Date Received: 12/05/12 09:15**

**Lab Sample ID: 240-18313-4**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			68023	12/10/12 13:41	AS	TAL NC
Total/NA	Analysis	1631E		100000	68290	12/11/12 12:40	AS	TAL NC

**Client Sample ID: 601(7)WWT TOT**

**Date Collected: 12/03/12 17:30**

**Date Received: 12/05/12 09:15**

**Lab Sample ID: 240-18313-5**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			67595	12/06/12 14:40	LM	TAL NC
Total/NA	Analysis	7470A		15	68175	12/11/12 19:39	DH	TAL NC

**Client Sample ID: 608 WWT FB**

**Date Collected: 12/04/12 07:50**

**Date Received: 12/05/12 09:15**

**Lab Sample ID: 240-18313-6**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			68023	12/10/12 13:41	AS	TAL NC
Total/NA	Analysis	1631E		1	68290	12/11/12 12:43	AS	TAL NC

TestAmerica Canton



# Lab Chronicle

Client: Duke Energy Corporation  
Project/Site: Duke MF LL Hg 2012 - J12120124

TestAmerica Job ID: 240-18313-1

## Client Sample ID: 608 WWT

Lab Sample ID: 240-18313-7

Date Collected: 12/04/12 07:55

Matrix: Water

Date Received: 12/05/12 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			68023	12/10/12 13:41	AS	TAL NC
Total/NA	Analysis	1631E		1	68290	12/11/12 12:47	AS	TAL NC

## Client Sample ID: 608 WWT DUP

Lab Sample ID: 240-18313-8

Date Collected: 12/04/12 08:00

Matrix: Water

Date Received: 12/05/12 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			68023	12/10/12 13:41	AS	TAL NC
Total/NA	Analysis	1631E		1	68290	12/11/12 12:51	AS	TAL NC

## Client Sample ID: 608 WWT DISSOLVED

Lab Sample ID: 240-18313-9

Date Collected: 12/04/12 08:05

Matrix: Water

Date Received: 12/05/12 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	1631E			67650	12/06/12 14:37	AS	TAL NC
Dissolved	Analysis	1631E		1	67726	12/07/12 11:03	AS	TAL NC

## Client Sample ID: TRIP BLANK

Lab Sample ID: 240-18313-10

Date Collected: 12/04/12 00:00

Matrix: Water

Date Received: 12/05/12 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			68023	12/10/12 13:41	AS	TAL NC
Total/NA	Analysis	1631E		1	68290	12/11/12 12:55	AS	TAL NC

## Client Sample ID: RI FB

Lab Sample ID: 240-18313-11

Date Collected: 12/04/12 08:15

Matrix: Water

Date Received: 12/05/12 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			68023	12/10/12 13:41	AS	TAL NC
Total/NA	Analysis	1631E		1	68290	12/11/12 12:59	AS	TAL NC

## Client Sample ID: RI

Lab Sample ID: 240-18313-12

Date Collected: 12/04/12 08:20

Matrix: Water

Date Received: 12/05/12 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			68023	12/10/12 13:41	AS	TAL NC
Total/NA	Analysis	1631E		1	68290	12/11/12 13:04	AS	TAL NC

TestAmerica Canton

## Lab Chronicle

Client: Duke Energy Corporation  
Project/Site: Duke MF LL Hg 2012 - J12120124

TestAmerica Job ID: 240-18313-1

### Client Sample ID: OUTFALL 002 FB

Lab Sample ID: 240-18313-13

Date Collected: 12/04/12 08:40

Matrix: Water

Date Received: 12/05/12 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			68023	12/10/12 13:41	AS	TAL NC
Total/NA	Analysis	1631E		1	68290	12/11/12 13:09	AS	TAL NC

### Client Sample ID: OUTFALL 002

Lab Sample ID: 240-18313-14

Date Collected: 12/04/12 08:45

Matrix: Water

Date Received: 12/05/12 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			68023	12/10/12 13:41	AS	TAL NC
Total/NA	Analysis	1631E		1	68290	12/11/12 13:14	AS	TAL NC

### Client Sample ID: OUTFALL 002 DUP

Lab Sample ID: 240-18313-15

Date Collected: 12/04/12 08:50

Matrix: Water

Date Received: 12/05/12 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			68023	12/10/12 13:41	AS	TAL NC
Total/NA	Analysis	1631E		1	68290	12/11/12 13:27	AS	TAL NC

#### Laboratory References:

TAL NC = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

## Certification Summary

Client: Duke Energy Corporation  
Project/Site: Duke MF LL Hg 2012 - J12120124

TestAmerica Job ID: 240-18313-1

### Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAC	9	01144CA	06-30-13
Connecticut	State Program	1	PH-0590	12-31-13
Florida	NELAC	4	E87225	06-30-13
Georgia	State Program	4	N/A	06-30-13
Illinois	NELAC	5	200004	07-31-13
Kansas	NELAC	7	E-10336	01-31-13
Kentucky	State Program	4	58	06-30-13
L-A-B	DoD ELAP		L2315	02-28-13
Minnesota	NELAC	5	039-999-348	12-31-12
Nevada	State Program	9	OH-000482008A	07-31-13
New Jersey	NELAC	2	OH001	06-30-13
New York	NELAC	2	10975	04-01-13
Ohio VAP	State Program	5	CL0024	01-19-14
Pennsylvania	NELAC	3	68-00340	08-31-13
Texas	NELAC	6		08-03-13
USDA	Federal		P330-11-00328	08-26-14
Virginia	NELAC	3	460175	09-14-13
Washington	State Program	10	C971	01-12-13
West Virginia DEP	State Program	3	210	12-31-12
Wisconsin	State Program	5	999518190	08-31-13

Chain of Custody Record  
N. CAULTON, OHIO

**TestAmerica Laboratory location:**  
**Regulatory program:**

Regulatory program:	<input type="checkbox"/> DW	<input type="checkbox"/> NPDES	<input type="checkbox"/> RCRA	<input type="checkbox"/> Other
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Company Name: <b>DUKE ENERGY</b>		Client Project Manager: <b>M. WAGNER (URS)</b>		Site Contact: <b>Telephone:</b>		Lab Contact: <b>Telephone:</b>		COC No: <b>053945</b>		TestAmerica Laboratories, Inc.	
Address: <b>MIAMI FORT STATION</b>		Telephone: <b>513-651-3440</b>		Telephone:		Telephone:		1 of 2		COCs	
City/State/Zip: <b>N. BEND, OH 43055</b>		Email: <b>Mike.Wagner@URS.com</b>		TAT H off (in days)		TAT H off (in days)		TAT H off (in days)		TAT H off (in days)	
Project Name: <b>DUKE ME LUNY 2012</b>		Method of Shipment/Carrier:		Analysis: Temperature (in days)		Analysis: Temperature (in days)		Analysis: Temperature (in days)		Analysis: Temperature (in days)	
Project Number: <b>14950516</b>		Shipping/Tracking No:		TAT H off (in days)		TAT H off (in days)		TAT H off (in days)		TAT H off (in days)	
PO #		Sample Date		Sample Time		Matrix		Containers & Preservatives		Filtered Sample (Y/N)	
Sample Identification		Sample Date		Sample Time		Matrix		Containers & Preservatives		Filtered Sample (Y/N)	
601(8) WWT		12-3-12		1710		X		X		X	
601(8) WWT TOT		12-3-12		1715		X		X		X	
601(8) WWT TOT Dup		12-3-12		1720		X		X		X	
601(7) WWT		12-3-12		1725		X		X		X	
601(7) WWT TOT		12-3-12		1730		X		X		X	
608 WWT FB		12-4-12		0750		X		X		X	
608 WWT		12-4-12		0755		X		X		X	
608 WWT Dup		12-4-12		0800		X		X		X	
608 WWT DISSOLVED		12-4-12		0805		X		X		X	
TRIP BLANK		12-4-12		0810		X		X		X	
Possible Hazard Identification		Flammable		Skin Irritant		Poison B		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Disposal By Lab	
Special Instructions/OC Requirements & Comments:		Flammable		Skin Irritant		Poison B		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Disposal By Lab	
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:	
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:	
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:	

Chain of Custody Record

N. Canton, OH 410

TestAmerica Laboratory location:  
Regulatory program:

☐ DW ☐ NPDES ☐ RCRA ☐ Other

Client Contact		Site Contact		Lab Contact		TestAmerica Laboratories, Inc.	
Company Name: DUKE ENERGY		Client Project Manager:		Lab Contact:		COC No: 053944	
Address: WHAMI FORT		Telephone:		Telephone:		2 of 2 COCs	
City/State/Zip:		Email:		Analyses		For lab use only:	
Phone:		TAT Return Contract		Filtered Samples (X/N)		Walk-in clean	
Project Name:		Analysis Turnaround Time		Composite C/Oral G		Lab prep	
Project Number: 14950516		Method of Shipment/Carrier:		Other: NG		Lab prep	
Shipping/Tracking No:		Shipping/Tracking No:		Other: 2		Lab prep	
PO #		Shipping/Tracking No:		Other: 4		Lab prep	
Sample Identification		Sample Date		Sample Time		Lab prep	
RT FB		12-4-12		0815		Lab prep	
RT		12-4-12		0820		Lab prep	
OUTFALL 002 FB		12-4-12		0840		Lab prep	
OUTFALL 002		12-4-12		0845		Lab prep	
OUTFALL 002 Dip		12-4-12		0850		Lab prep	
Sample Specific Notes / Special Instructions:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Special Instructions/QC Requirements & Comments:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Relinquished by:		Relinquished by:		Relinquished by:		Relinquished by:	
Relinquished by:		Relinquished by:		Relinquished by:		Relinquished by:	
Relinquished by:		Relinquished by:		Relinquished by:		Relinquished by:	





## TestAmerica Canton Sample Receipt Form/Narrative

Login # : 18313Client DUKE ENERGY Site Name \_\_\_\_\_ By: [Signature]Cooler Received on 12-5-12 Opened on 12-5-12 (Signature)FedEx: 1<sup>st</sup> Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other \_\_\_\_\_TestAmerica Cooler # \_\_\_\_\_ Foam Box Client Cooler Box Other \_\_\_\_\_Packing material used: Bubble Wrap Foam Plastic Bag None Other \_\_\_\_\_COOLANT: Wet Ice Blue Ice Dry Ice Water None

## 1. Cooler temperature upon receipt

IR GUN# 1 (CF -2 °C) Observed Sample Temp. \_\_\_\_\_ °C Corrected Sample Temp. \_\_\_\_\_ °C

IR GUN# 4G (CF 0 °C) Observed Sample Temp. \_\_\_\_\_ °C Corrected Sample Temp. \_\_\_\_\_ °C

IR GUN# 5G (CF 0 °C) Observed Sample Temp. \_\_\_\_\_ °C Corrected Sample Temp. \_\_\_\_\_ °C

IR GUN# 8 (CF 0 °C) Observed Sample Temp. 13.7 °C Corrected Sample Temp. 13.7 °C☐ Multiple  
on Back2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No

-Were custody seals on the outside of the cooler(s) signed &amp; dated? Yes No NA

-Were custody seals on the bottle(s)? Yes No

3. Shippers' packing slip attached to the cooler(s)? Yes No

4. Did custody papers accompany the sample(s)? Yes No

5. Were the custody papers relinquished &amp; signed in the appropriate place? Yes No

6. Did all bottles arrive in good condition (Unbroken)? Yes No

7. Could all bottle labels be reconciled with the COC? Yes No

8. Were correct bottle(s) used for the test(s) indicated? Yes No

9. Sufficient quantity received to perform indicated analyses? Yes No

10. Were sample(s) at the correct pH upon receipt? Yes No NA

11. Were VOAs on the COC? Yes No

12. Were air bubbles &gt;6 mm in any VOA vials? Yes No NA

13. Was a trip blank present in the cooler(s)? Yes No

Contacted PM \_\_\_\_\_ Date \_\_\_\_\_ by \_\_\_\_\_ via Verbal Voice Mail Other

Concerning \_\_\_\_\_

## 14. CHAIN OF CUSTODY &amp; SAMPLE DISCREPANCIES

## 15. SAMPLE CONDITION

Sample(s) \_\_\_\_\_ were received after the recommended holding time had expired.

Sample(s) \_\_\_\_\_ were received in a broken container.

Sample(s) \_\_\_\_\_ were received with bubble &gt;6 mm in diameter. (Notify PM)

## Sample(s)

recommended pH level(s). Nitric Acid Lot# 031512-HNO<sub>3</sub>; Sulfuric Acid Lot# 051012-H<sub>2</sub>SO<sub>4</sub>; Sodium Hydroxide Lot# 121809-NaOH; Hydrochloric Acid Lot# 041911-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH<sub>3</sub>COO)<sub>2</sub>ZN/NaOH. What time was preservative added to sample(s)?

[illegible]